



## YEARLY STATUS REPORT - 2021-2022

<b>Part A</b>	
<b>Data of the Institution</b>	
<b>1.Name of the Institution</b>	<b>PANDIT DEENDAYAL ENERGY UNIVERSITY</b>
• Name of the Head of the institution	<b>Dr. S. Sundar Manoharan</b>
• Designation	<b>Vice Chancellor</b>
• Does the institution function from its own campus?	<b>Yes</b>
• Phone no./Alternate phone no.	<b>07923275007</b>
• Mobile no	<b>9426383008</b>
• Registered e-mail	<b>registrar@pdpu.ac.in</b>
• Alternate e-mail address	<b>tarun.shah@pdpu.ac.in</b>
• City/Town	<b>Raisan</b>
• State/UT	<b>Gujarat</b>
• Pin Code	<b>382426</b>
<b>2.Institutional status</b>	
• University	<b>Private</b>
• Type of Institution	<b>Co-education</b>
• Location	<b>Urban</b>

• Name of the IQAC Co-ordinator/Director	Dr. Vivek Pandya				
• Phone no./Alternate phone no	07923275008				
• Mobile	9824225220				
• IQAC e-mail address	IQAC@pdpu.ac.in				
• Alternate Email address	Vivek.Pandya@sot.pdpu.ac.in				
<b>3.Website address (Web link of the AQAR (Previous Academic Year))</b>	<a href="https://pdpu.ac.in/downloads/Annual%20Quality%20Assurance%20Report%20(AQAR)%20-2020-21.pdf">https://pdpu.ac.in/downloads/Annual%20Quality%20Assurance%20Report%20(AQAR)%20-2020-21.pdf</a>				
<b>4.Whether Academic Calendar prepared during the year?</b>	Yes				
• if yes, whether it is uploaded in the Institutional website Web link:					
<b>5.Accreditation Details</b>					
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	A	3.39	2016	16/12/2016	15/12/2021
Cycle 2	A++	3.52	2022	21/09/2022	20/09/2027
<b>6.Date of Establishment of IQAC</b>			05/09/2012		
<b>7.Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.</b>					
Institution/ Department/Faculty	Scheme	Funding agency	Year of award with duration	Amount	
University	Graded Autonomy	NA	20/04/2018	NA	
University	SIRO	NA	24/11/2021	NA	
<b>8.Whether composition of IQAC as per latest NAAC guidelines</b>	Yes				
• Upload latest notification of formation of IQAC	<a href="#">View File</a>				
<b>9.No. of IQAC meetings held during the year</b>	04				

<ul style="list-style-type: none"> <li>The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website. (Please upload, minutes of meetings and action taken report)</li> </ul>	Yes	
<ul style="list-style-type: none"> <li>(Please upload, minutes of meetings and action taken report)</li> </ul>	<a href="#">View File</a>	
<b>10. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	Yes	
<ul style="list-style-type: none"> <li>If yes, mention the amount</li> </ul>		
<b>11. Significant contributions made by IQAC during the current year (maximum five bullets)</b>		
1. Received NBA Accreditation for Petroleum Engineering & Electrical Engineering programs.		
2. Received ISO Certifications for the University (EMS -ISO 14001:2015 & QMS - ISO: 9001:2015) on 29 Nov 2021.		
3. Organized the "SRP Review Symposium" wherein All Students displayed the Current Status Review of the Project by Poster Presentation along with expected outcome showcasing Research Paper or Design Patent - 19 Feb 2022.		
4. Organized the "2nd Faculty Research Review Symposium " wherein all Faculties of School of Technology displayed the Current Status Review of the Project by Poster Presentation along with expected outcome showcasing Research Paper or Design Patent - 5th March 2022.		
5. Participated in NIRF Ranking and were Awarded at No. 89, SPM Ranked among the top 100 (out of 751 B-Schools) in NIRF B-School Rankings - 2022 (Ministry of Education, Govt. of India).		
<b>12. Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year</b>		
Plan of Action	Achievements/Outcomes	
Planned for 8th Biennial International Conference on energy and Infrastructure Management (ICEIM 2022)	The conference was conducted (Hybrid Mode) successfully on 27-29 July 2022.	

Participation in NIRF 2022.	Awarded at No. 89, SPM Ranked among the top 100 (out of 751 B-Schools) in NIRF B-School Rankings - 2022 (Ministry of Education, Govt. of India)
Planned to Commission of LASER Metal 3D Printer	Installed and Commissioned LASER METAL 3D PRINTER in the University. The launch was inaugurated by Hon'ble Governor of Gujarat on 04 Oct 2021
Planned 1st International Conference on additive Manufacturing	The conference was conducted successfully on 4-6 Oct 2021.
Planned for ISO (EMS-14001:2015 & QMS 9001:2015) Certifications for the University	Taken initiatives in line with the requirement of ISO and received ISO Certifications for the University (EMS-ISO 14001:2015 & QMS - ISO: 9001:2015) on 29th Nov 2021.
Planned to conduct Research Symposium for Ph.D. Scholars & Technical Staff of the University	Conducted Research Symposium for Ph.D. Scholars (May -Jul 2021; 08 Weeks). Conducted Technical Staff Symposium (May -Jul 2021; 08 Weeks).
Preparations carried out for 'Centre of Excellence' status to the University	Officially Awarded 'Centre of Excellence' status to the University on 05 Jan 2022
International Conf. Nanomaterials for Energy Conversion and storage (NECSA-22)	The conference was conducted successfully on 19-21 Jan 2022.
Planned for Student research Project (SRP )Review Symposium	Office of R&D and IQAC cell organized the "SRP Review Symposium" wherein All Students displayed the Current Status Review of the Project by Poster Presentation along with expected outcome showcasing Research Paper or Design Patent - 19 Feb 2022

Planned for 2nd Faculty Research Review Symposium	Office of the Dean- R&D and IQAC cell organized the "2nd Faculty Research Review Symposium " wherein all Faculties of School of Technology displayed the Current Status Review of the Project by Poster Presentation along with expected outcome showcasing Research Paper or Design Patent - 5th March 2022
Planned for Online Seminar on	An Online Seminar on
Planned for International conference on	Successfully completed International conference on
Planned to Jointly develop a Centre of Excellence (CoE) with L&T	L&T Technology services announced its collaboration with PDEU for co-development of sustainability solutions. This alliance will jointly develop a Centre of Excellence (CoE) focused on prioritizing innovations that strengthen clean and sustainable energy. The CoE will further pursue R&D in hydrogen generation, carbon capture, energy storage, & pumped storage. The MoU is effective wef 14th May 2022.
Planned for NBA accreditation for Petroleum Engineering and Preparation for NBA accreditation for B. Tech. Electrical Engineering, Chemical Engineering, and Civil Engineering.	Received NBA Accreditation for Petroleum Engineering for three years on 04th Oct 2021. Received NBA Accreditation for Electrical Engineering on 27 April 2022
Planned for submission of NAAC SSR	Prepared and successfully submitted NAAC-SSR in April 2022 and registered for DVV on 20 April 2022
<b>13. Whether the AQAR was placed before statutory body?</b>	Yes

<ul style="list-style-type: none"> <li>Name of the statutory body</li> </ul>	
Name	Date of meeting(s)
Empowered Committee for approval to AQAR	Nil
<b>14. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to Assess the functioning?</b>	Yes
<b>15. Whether institutional data submitted to AISHE</b>	
Year	Date of Submission
2020-21	24/03/2022
<b>16. Multidisciplinary / interdisciplinary</b>	
<ul style="list-style-type: none"> <li>PDEU practices interdisciplinary courses which integrates three disciplines; School of Engineering, Liberal Studies, and Management.</li> <li>Industry 4.0 curriculum integrates all branches of Engineering and sciences.</li> <li>Open electives like communication skills, Life and Teachings of Swami Vivekananda, Gandhian Thoughts is taught to Engineering students.</li> <li>Similarly, Mathematics, Science in Everyday life, Environmental Laws, Atmospheric Physics are taught to Liberal Study Students.</li> <li>Wide range of crisscross courses offering across schools.</li> </ul>	
<b>17. Academic bank of credits (ABC):</b>	
<ul style="list-style-type: none"> <li>PDEU opts for Academic Bank of credits by mandatorily registering themselves under ABC via National Academic Depository (NAD). Credits awarded by a student in one program from an institution may be transferred /redeemed by another institution upon students' consent.</li> <li>Semester Exchange/Abroad Program happened at the University of Minnesota - USA and The University of Oklahoma - USA and total 7 PDEU students have been benefitted.</li> </ul>	
<b>18. Skill development:</b>	
<ul style="list-style-type: none"> <li>PDEU always believes in finishing school. About 920 students have participated in Industry oriented comprehensive projects</li> </ul>	

in last five years.

- The students worked on live projects which made them employable and deployable and job ready.
- Skill development starts from day 1 of a student and they participate in Industrial orientation and training. 925 students took benefit from the same.
- 88% of the students every year are absorbed in skill based Industry every year.
- Hands on skill provided to students through rural internship, industrial orientation and industrial training. 3091 students benefitted from the skill development program.
- We are starting British Petroleum (BP) skill development program for students. 10 courses from National Skill Development courses identified for Phase-1.
- 17 skill development courses from International Centre for excellence in Automobile (iACE).

#### **19.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)**

To provide all stakeholders with global exposure while strongly retaining the local ethos and promotion of the indigenous value system, PDEU has taken many unique initiatives as below:

1. New Specialization in BA (Hons) is added in Indic Studies. This major/minor would expose students to papers like Indian Art and Sculpture, Healthy Mind and Body: Indian Perspectives, Indian Folk Songs and Stories, Indian Business Model, Indian Heritage: Places and History and Food & Culture. This specialization intends to expose students to the goodness in the Indian knowledge system and also the international students/scholars to turn to the Indian ethos. Following the interdisciplinary model of NEP, this specialization would also be open and available for other Majors like Business, Commerce, English, Economics, Public Administration, Psychology, Mass Communication, International Relations and Digital Humanities.
2. PDEU has Sanskrit Club 'Tattvam' which is run by the students and offers workshops/ activities/ competitions in Vedic Maths, Spoken Sanskrit Language, Shloka Recitation Competition, Cross Word in Sanskrit etc.
3. School of Liberal Studies at PDEU has a one-month residential rural internship to acquaint students to discover ethnic strengths in the rural area and work hand-in-hand with NGOs for an inclusive and equitable society.
4. School of Liberal Studies at PDEU, exposes students during the

weekend to audit activities that help revive old Indian arts and crafts like - Tie & Dye, Warli Painting, Mata ni Pachedi, clay crafts etc. Artisans from the rural side take sessions as experts.

5. To foster the spirit of nation-building and patriotism, in addition to regular NCC enrolment, Exposure to NCC on the same line is conceived of and is mandatory for 500 students of the School of Liberal Studies in the first year.
6. As a unit in a paper of 'World Classics' (3 Credit) in the fourth semester of the School of Liberal Studies, Bhagavad Gita Chapters 1 and 2 are taught.
7. In the second semester at the School of Liberal Studies, Styles of Music (3 Credits) and Overview of Indian Art (3 Credits) are offered as electives.

Different cultural festivals of India are periodically celebrated in harmony and exuberance. PDEU celebrates Pandit Deendayal Memorial Day, Teachers Day, Engineers Day etc to celebrate Indian values and achievements.

#### **20.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):**

- OBE is practiced by PDEU.
- 1300 courses are mapped with program objectives and course objectives defined as per Bloom Taxonomy.
- Course outcome and Program Outcome mapping is diligently followed as per NBA norms.
- Course Attainment validated by students, employers and Alumni.
- Each student is informed about his/her level of attainment and the goal they achieved with respect to overall goal achievement

#### **21.Distance education/online education:**

- Students were taught in online, offline and hybrid mode - all using the ICT Tools installed in the classrooms.
- 1300 courses were taught in online mode in MS team platform during pandemic.
- Exams were conducted in proctored PEXA software.
- PDEU also envisage distance education in online mode in near future.

<b>Extended Profile</b>	
<b>1.Programme</b>	
1.1 Number of programmes offered during the year:	<b>48</b>
1.2 Number of departments offering academic programmes	<b>18</b>
<b>2.Student</b>	
2.1 Number of students during the year	<b>7335</b>
2.2 Number of outgoing / final year students during the year:	<b>1641</b>
2.3 Number of students appeared in the University examination during the year	<b>6821</b>
2.4 Number of revaluation applications during the year	<b>0</b>
<b>3.Academic</b>	
3.1 Number of courses in all Programmes during the year	<b>1729</b>
3.2 Number of full time teachers during the year	<b>250</b>
3.3 Number of sanctioned posts during the year	<b>264</b>
<b>4.Institution</b>	
4.1 Number of eligible applications received for admissions to all the	<b>21450</b>

Programmes during the year	
4.2 Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	676
4.3 Total number of classrooms and seminar halls	64
4.4 Total number of computers in the campus for academic purpose	1528
4.5 Total expenditure excluding salary during the year (INR in lakhs)	3903.81

## Part B

### CURRICULAR ASPECTS

#### 1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which is reflected in Programme outcomes (POs), Programme Specific Outcomes(PSOs) and Course Outcomes(COs) of the Programmes offered by the University

The contemporary education, its approaches, practices, effects, efficiency and the global need of enriching the student's productivity with the elements of Industry 4.0, PDEU offers academic programmes under different schools are prepared with the synthesis of various concepts related to Science and Technology, Management, Liberal Studies and Indian ethos as per National Education Policy (NEP) 2020. All academic programmes are blend of theory and experiment based learning in the form of industrial exposure and field based learning. PDEU offers cross-disciplinary education through choice based learning with more than 10% of total courses of the program as elective courses based on student's choice, interest and capability.

A systematic pattern of 'Outcome Based Education (OBE)' are imparted to students with researched and identified Program Outcomes (POs) and Program Specific Outcomes (PSO) complementing each courses with Six Course Outcomes (COs). Course curriculum taught to the student is based on categorised models of learning, rendering the levels of complexity and specificity based on Bloom's taxonomy. PDEU provides opportunity to students for international exposure through its

International Exposure Program (IEP). With large numbers of Industry collaboration, associations with apex professional bodies like CII & ASSOCHAM, Industrial societies & chapters and collaborations with abroad Universities of high repute and research organisations. PDEU has developed the course curriculum and implemented the same in alignment with local, national, regional and global requirements.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 1.1.2 - Number of Programmes where syllabus revision was carried out during the year

6

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 1.1.3 - Total number of courses having focus on employability/ entrepreneurship/ skill development offered by the University during the year

#### 1.1.3.1 - Number of courses having focus on employability/ entrepreneurship/ skill development during the year

1303

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

## 1.2 - Academic Flexibility

### 1.2.1 - Number of new courses introduced of the total number of courses across all programs offered during the year

73

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**1.2.2 - Number of Programmes in which Choice Based Credit System (CBCS)/elective course system has been implemented during the year**

43

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**1.3 - Curriculum Enrichment****1.3.1 - Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum**

PDEU believes in Value Based progressive education and instil ideals following its philosophy of philanthropy, humanitarianism, social consciousness and technology. Today PDEU has become an ensemble of a multi-layered educational system covering all aspects of education from Bachelor to doctorate studies. PDEU is one of the fastest growing University with 04 Schools, 18 departments, 89 learning laboratories and 32 research laboratories along with 12 Centre of excellences. It further maps the courses for programme outcome wherein the courses can demonstrate an awareness of Professional Ethics, Gender, Human Values, Environment and Sustainability. Professional Ethics, Gender and Human Values School of Technology and School of Petroleum Technology in their first year B. Tech. programme has subject on "Professional Ethics and Human Values" across all branches. PDEU has a mandatory Rural, Civic and Social Service Internship which is integral to all the Technology and Liberal Studies programme for first-year students. Adequate number of course across the schools sensitize students on Gender, Environment and Sustainability, Human Values and Professional Ethics. SPM offers course on "Business, Society and Governance" which gives orientation of Professional Ethics and Human Values. Expert Lectures on gender-related issues and human values are regularly organized by various schools as a part of their guest lectures, workshops, conclave, conferences etc. There is also a concerted mapping of program outcome 6,7,8 identified for each course outcome and implemented in teaching & evaluation.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year****24**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**1.3.3 - Total number of students enrolled in the courses under 1.3.2 above****1.3.3.1 - Number of students enrolled in value-added courses imparting transferable and life skills offered during the year****1603**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**1.3.4 - Number of students undertaking field projects / research projects / internships during the year****4000**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**1.4 - Feedback System****1.4.1 - Structured feedback for design and review of syllabus – semester wise / is received from Students Teachers Employers Alumni**

- All 4 of the above

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**1.4.2 - Feedback processes of the institution may be classified as follows**

- Feedback collected, analysed and action taken and feedback

available on website

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

## TEACHING-LEARNING AND EVALUATION

### 2.1 - Student Enrollment and Profile

#### 2.1.1 - Demand Ratio

##### 2.1.1.1 - Number of seats available during the year

2325

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

##### 2.1.2 - Total number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per applicable reservation policy during the year (Excluding Supernumerary Seats)

##### 2.1.2.1 - Number of actual students admitted from the reserved categories during the year

258

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 2.2 - Catering to Student Diversity

2.2.1 - The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners

Advance learners possess intellectual judgment and strong practical sense. Slow learners remains behind their sequential peers but Right help can appropriate their academic levels in time. Advanced learners are encouraged to opt for professional electives, Student Research Projects funded by the University, Hackathon, Start Up & incubation Activities. The above options are made available for slow learners as well.

Slow learners are identified based on marks/CGPA/back-logs obtained

by the student in the class test/previous semester/year, how the student interacts in the classroom with faculty and in student discussion forum. Students are also assessed by the mentors as per the classroom, practical and project performance.

The following actions are undertaken as Special program for advance and slow learners:

**Advance learners** - Motived to refer one notch higher papers/books as per syllabuses prescribed. Extra assignments and practical experiences are provided. Motivated to undergo 'Case Studies' to understand/solve problems. Asked to discuss the concept(s) generated during their Case Study and write Research Papers/participate in Conferences.

**Slow learners** - Motivate them and improve upon extra exercise, Test papers, Lectures. Opportunities are provided to express themselves and to put more efforts on reading books. Involve them in brain storming, counselling sessions and problem solving activities. Their doubts are addressed personally and are motivated to involve themselves in classroom session/quizzes. To improve their confidence separate problems /assignments are given and are asked to demonstrate them in classroom without any aid.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Link For Additional Information	Nil

### 2.2.2 - Student - Full time teacher ratio during the year

Number of Students	Number of Teachers
7335	250

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

## 2.3 - Teaching- Learning Process

2.3.1 - Student centric methods, such as experiential learning, participative learning and problem-

solving methodologies are used for enhancing learning experiences

PDEU uses a combination of regular Classroom Lecture Method (Board & pen) and Interactive teaching-learning Method. This also includes Project-based Learning, Internship based learning, IT-assisted Learning. Innovative student-centric methods such as Hackathons, Workshops, Virtual Lab, Simulation, Activity-based learning, Flipped Classroom, Peer learning groups, MOOCs, Team/Google Classroom, Real-time case studies, Mind map, Journal Review, Proto-type model, Language games, Poster presentation, Public Speaking, Industrial visits, Rural/Urban/Industrial Internships to encourage Participative, Problem-solving and Experiential learning. Students are encouraged for Student Research Programs (SRP) for which they are provided with Research Grants of Rs 2.5 Lacs (Max) per project.

Participatory Learning includes student's participation in seminars, group discussions (inter/Intra university/organisation, projects, and skill-based add-on courses, start-ups, entrepreneurship activities where they can use their expert technical or management skills. Dean Student Affairs imbibes leadership skills through various student clubs and Annual Cultural Programs.

Problem-solving methods: Students are encouraged to develop problem solving skills through Guest/expert lectures, participate in different technical tests and other competitions. Faculties involve students to gain Problem solving methods by Project activities, Case Studies, Classroom discussion and participation, Interdepartmental debates, Regular assignments and classroom question & answer.

PDEU curriculum is based on outcome based education (OBE) and choice based credit system (CBCS). NCC program (30+ cadets) are trained and 1000+ students have undertaken Rural Internship / Civic and Social Service Internship (RI/CSSI. Student interactions is also improved thorough alumni connect and alumni webinars.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

2.3.2 - Teachers use ICT enabled tools including online resources for effective teaching and learning processes during the year

At PDEU faculties are well versed to teach with technology. The ICT tools that are used regularly are 1. TCSion -been implemented for handling all the data concerning to faculty and students. Candidate's attendance, grading and marks for the subjects are

accessed through the same platform. 2. MS-Teams -Microsoft Teams is used as the platform for conducting online classes, chat with students, have video conferencing departmental and students meetings related to projects and seminars, file storage and sharing, and integrating for all the teaching learning processes online. 3. Smart Classroom - This digital device is available to cater the changing needs of taking classes online along with the existing computer and projectors. 4. Subject Oriented Softwares - Aspen Hysis/Aspen plus/Petrel/Crystal Ball/Fracpro/Kappa/CMG/CAD/Polymath/COMSOL/Matlab/C/C++ - Different software's are taught and used as a part of teaching learning process specific to different subjects. 5. MOOC : Coursera/EdX/NPTEL/e-Pathshala/IBM courses are available to students from PDEU. 6. Zoom - PDEU has Zoom license and is currently used for conducting webinars and conferences. Hackthaon HACK 4.0 with more than >500 students was taken online. 7. Audio-visual Education is the need of an hour. All the faculties use the different MS software's for better interaction, showcasing and focusing on intricacies of the topic and focus on concepts.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 2.3.3 - Ratio of students to mentor for academic and other related issues during the year

#### 2.3.3.1 - Number of mentors

194

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 2.4 - Teacher Profile and Quality

#### 2.4.1 - Total Number of full time teachers against sanctioned posts during the year

250

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

#### 2.4.2 - Total Number of full time teachers with Ph.D./D.M/M.Ch./D.N.B

**Superspeciality/D.Sc./D’Lit. during the year****220**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**2.4.3 - Total teaching experience of full time teachers in the same institution during the year****2.4.3.1 - Total experience of full-time teachers****1481**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**2.4.4 - Total number of full time teachers who received awards, recognition, fellowships at State, National, International level from Government/Govt. recognised bodies during the year****36**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**2.5 - Evaluation Process and Reforms****2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year****25****2.5.1.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results year wise during the year****25**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 2.5.2 - Total number of student complaints/grievances about evaluation against total number appeared in the examinations during the year

0

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

2.5.3 - IT integration and reforms in the examination procedures and processes (continuous internal assessment and end-semester assessment) have brought in considerable improvement in examination management system of the institution

PDEU has brought multiple reforms in the examination procedures and processes integrating IT into internal and end semester examination assessment. The IT integrations has modernized the entire examination process and towards transparency. It majorly includes online facilities for examination process like Examination form filling up, Admit card generation, marks Capturing, result declaration and grade card Generation. The following reforms are achieved with the IT integration:-

Result processing and Publishing through TCSiON for all students (5000+) across the University Student's evaluation done over the complete semester is collated by the faculties. These evaluations has to be filled in the template mark entry excel sheet for the specified subject. Once the sheets are uploaded on the TCSion portal. The portal process the details for each candidate and subject wise grades are displayed against each subjects. Results are also published online for the students to view. Hardcopies of the results are then printed and distributed to the students through the administration.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 2.5.4 - Status of automation of Examination division along with approved Examination Manual

A. 100% automation of entire division & implementation of Examination Management System

( EMS )

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

## 2.6 - Student Performance and Learning Outcomes

2.6.1 - The institution has stated learning outcomes (generic and programme specific)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents

PDEU emphasises is on inculcating skills through an optimum blend of self-discipline, guidance, and supervision.

The learning outcome of this program delves into making learners well proficient in integrating and applying the earned knowledge to solve problems efficiently. The Programme Educational Objectives (PEOs), Programme Outcomes (POs) are articulated for all programme. The course outcomes are prepared following Bloom's Taxonomy and are mapped to the concerned programme's POs and the course syllabus and assessment strategies are derived based on the mapping. All programmes adhere strictly to the norms of statutory bodies such as NAAC, NBA, etc. and the curricula are developed in line with the NEP 2020, incorporating radical topics pertaining to Industry 4.0. Course Outlines are prepared and distributed to students of each programme at the beginning of a term (semester/trimester, as the case may be) and communicated via online platforms such as MS Teams and emails for ease of records and transmission to each batch of students. The same are reflected in the LMS too. A Handbook containing course requirements and syllabi is shared with students at the beginning of a programme that details the course objectives and outcomes, suggested breakdown of modules and assessment criteria.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

2.6.2 - Attainment of Programme outcomes, Programme specific outcomes and course outcomes are evaluated by the institution during the year

Detailed Course Outlines contain POs, CO-PO mapping details, assessment component details and schedule, session plan, mapping of assessment components to COs and rubrics for assessment. Separately,

instructions for continuous evaluation components are provided as per specific course's requirement. Attainment of Course Outcomes Student-wise CO evaluation for Internal Assessment Components of a course is collated in an MS Excel worksheet. The formulae for calculating Final COs and Weighted COs as per the stated learning outcomes communicated to students at the beginning of each academic term are used to arrive at the cumulative Internal Assessment attainment for each student. Attainment of Program Outcomes (Course-wise direct linkages) Course Outcome attainment levels are codified at the beginning of an academic term (E.g., 60% scoring at or above an agreed-upon level for a CO means the CO is attained and it is coded "1" in an Excel worksheet for calculating PO Attainment; else, "0"). The worksheet draws from the details provided in the previous ones on attainment of course outcomes (described earlier here). The summary and target-versus-attained levels etc. are depicted pictorially too for ease of interpretation and analysis. Based on these analyses, the Course Outcome and Program Outcome related actions are proposed in faculty meetings of the respective areas/branches.

The final attainment of the course outcome is calculated on the basis of direct assessment (80%) and indirect assessment (20%).

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 2.6.3 - Number of students passed during the year

#### 2.6.3.1 - Total number of final year students who passed the university examination during the year

1641

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 2.7 - Student Satisfaction Survey

#### 2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire) (results and details need to be provided as a web link)

<https://pdpu.ac.in/downloads/Students%20Satisfaction%20Survey%202021-22.pdf>

**RESEARCH, INNOVATIONS AND EXTENSION****3.1 - Promotion of Research and Facilities**

3.1.1 - The institution Research facilities are frequently updated and there is well defined policy for promotion of research which is uploaded on the institutional website and implemented

The Office of Dean - Research and Development (ODRnD) provides, to entire PDEU fraternity, support for free and responsible conduct of investigative, scholarly and creative activities at Pandit Deendayal Energy University, Gandhinagar. The ODRD offers support from the initial stages of proposal development to grants management, publication and the transfer of technology in terms of patent and prototype. We provide internally funded grants, pre-award and post-award support for externally funded grants and offer education and support information on grant compliance and the responsible conduct of research. PDEU receives grant from Central and State government funding agencies like Ministry of Human Resource Development (MHRD), Department of Science and Technology (DST), Board of Research in Nuclear Sciences (BRNS), Department of Biotechnology (DBT), Indian Space Research Organization (ISRO), Indian Council of Social Science Research (ICSSR) and Gujarat Council on Science and Technology (GUJCOST). The Student Research Program (SRP) offers Financial Assistance upto Rs. 2.5 lac to PDEU students to work on basic and applied research projects. Projects provide students with a meaningful research experience, with the student assuming the principal role and the faculty or teaching academic staff member serving as a mentor. The student submits proposal, using the advice and technical expertise of the mentor as a guide.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**3.1.2 - The institution provides seed money to its teachers for research (amount INR in Lakhs)**

1

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**3.1.3 - Number of teachers receiving national/ international fellowship/financial support by various agencies for advanced studies/ research during the year**

01

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	No File Uploaded

### 3.1.4 - Number of JRFs, SRFs, Post-Doctoral Fellows, Research Associates and other research fellows enrolled in the institution during the year

19

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.1.5 - Institution has the following facilities to support research Central Instrumentation Centre Animal House/Green House Museum Media laboratory/Studios Business Lab Research/Statistical Databases Moot court Theatre Art Gallery

A. Any 4 or more of the above

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 3.1.6 - Number of departments with UGC-SAP, CAS, DST-FIST, DBT, ICSSR and other recognitions by national and international agencies during the year

0

File Description	Documents
Upload the data template	No File Uploaded
Upload relevant supporting document	No File Uploaded

## 3.2 - Resource Mobilization for Research

### 3.2.1 - Extramural funding for Research (Grants sponsored by the non-government sources such as industry, corporate houses, international bodies for research projects) endowments, Chairs in the University during the year (INR in Lakhs)

273.79

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.2.2 - Grants for research projects sponsored by the government agencies during the year (INR in Lakhs)

414.02

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.2.3 - Number of research projects per teacher funded by government and non-government agencies during the year

2.75

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

## 3.3 - Innovation Ecosystem

3.3.1 - Institution has created an eco-system for innovations including Incubation centre and other initiatives for creation and transfer of knowledge

PDEU-IIC is an incubator established in 2014 by Pandit Deendayal Energy University (PDEU) as which got formally registered in 2017u/s 8 of Companies Act, 2013. It is recognized as Nodal Institute by Govt. of Gujarat and registered as Start up India Incubator under DIPP (Department of Industrial Policy and Promotion, Govt. of India). Also, PDEU-IIC is supported by Student Start-up and Innovation Policy (SSIP) by Education Dept. of Govt. of Gujarat, Startup Innovation Policy by Industries Commissionerate (IC) and Department of Science and Technology (DST) by Government of Gujarat. Till 2021, PDEU-IIC has incubated more than 120 Start-ups including more than 55 registered companies in different domains such as waste management, energy and environment, IT & IOT, Fintech, Cleantech,

etc. with more than 200 employment generated and more than Rs.40,00,00,000 of sales by these incubated startups. During 2020-21, inspite of Covid-19 pandemic. Till now, PDEU-IIC has organised more than 110 events with morethan 18000 participants till 2021. The events include hackathons, children innovation programs, startup training programs, webinars, expert sessions, start-up weekends, workshops etc.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

62

#### 3.3.2.1 - Total number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development year wise during the year

62

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.3.3 - Number of awards / recognitions received for research/innovations by the institution/teachers/research scholars/students during the year

#### 3.3.3.1 - Total number of awards / recognitions received for research/innovations won by institution/teachers/research scholars/students year wise during the year

23

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

## 3.4 - Research Publications and Awards

### 3.4.1 - The institution ensures implementation of its stated Code of Ethics for research

#### 3.4.1.1 - The institution has a stated Code of Ethics for research and the implementation of

A. All of the above

which is ensured through the following

1. Inclusion of research ethics in the research methodology course work
2. Presence of institutional Ethics committees (Animal, chemical, bio-ethics etc)
3. Plagiarism check
4. Research Advisory Committee

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**3.4.2 - The institution provides incentives to teachers who receive state, national and international recognitions/awards Commendation and monetary incentive at a University function Commendation and medal at a University function Certificate of honor Announcement in the Newsletter / website**

**D. Any 1 of the above**

File Description	Documents
Upload the data template	No File Uploaded
Upload relevant supporting document	No File Uploaded

**3.4.3 - Number of Patents published/awarded during the year**

**3.4.3.1 - Total number of Patents published/awarded year wise during the year**

**79**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**3.4.4 - Number of Ph.D's awarded per teacher during the year**

**3.4.4.1 - How many Ph.D's are awarded during the year**

**34**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.4.5 - Number of research papers per teacher in the Journals notified on UGC website during the year

3

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.4.6 - Number of books and chapters in edited volumes published per teacher during the year

#### 3.4.6.1 - Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings during the year

313

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

#### 3.4.7 - E-content is developed by teachers For e-PG-Pathshala For CEC (Under Graduate) For SWAYAM For other MOOCs platform For NPTEL/NMEICT/any other Government Initiatives For Institutional LMS

E. None of the above

File Description	Documents
Upload the data template	No File Uploaded
Upload relevant supporting document	No File Uploaded

### 3.4.8 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

Scopus	Web of Science
608	2435

File Description	Documents
Any additional information	No File Uploaded
Bibliometrics of the publications during the year	<a href="#">View File</a>

### 3.4.9 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

Scopus	Web of Science
53	51

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	<a href="#">View File</a>
Any additional information	No File Uploaded

### 3.5 - Consultancy

3.5.1 - Institution has a policy on consultancy including revenue sharing between the institution and the individual and encourages its faculty to undertake consultancy

Taking the vision and mission of the university into consideration, Research Advisory Board is constituted to promote research and consultancy. Consultancy policy of the university guides the consultancy initiatives by university faculty and provides norms and regulations for consultancy projects implementation. Salient features of the consultancy policy are listed below:

1. The total number of hours put up by faculty in a year for MDP + consulting hrs should not exceed 400 hrs (50 days) or remuneration shall not exceed 30% of the annual salary(excluding HRA and allowances) of the respective year whichever is lower to ensure focus for assigned curriculum. However DG may relax the limit of 400 hrs if the additional hours are during holidays on case to case basis.
2. The distribution to support staff shall be decided in due course after consulting respective personnel.

3. The efforts of evaluation of assignments/presentations of projects, as part of the program, is covered in the charges for delivery.

4. Proper accounting of the expenditure should be decided to enable to workout correct cost of the program.

5. The hostel charges, if accommodation is provided should be decided and considered in the cost estimate.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 3.5.2 - Revenue generated from consultancy and corporate training during the year (INR in Lakhs)

#### 3.5.2.1 - Total amount generated from consultancy and corporate training during the year (INR in lakhs)

91.44

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.6 - Extension Activities

3.6.1 - Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the year

The Office of Student Activities, Involvement & Leadership (OSAIL) complements students' academic experiences by providing services and resources that engage students in creating campus culture through social, cultural, intellectual, spiritual, athletic, recreational, artistic, political, and service opportunities. Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., During the year, more than 800 students participated in various social activities including creating awareness about cyber security, medical camp, blood donation camps etc. among others.

The OSAIL organizes Vacation Workshops under Community Development Initiative (CDI) every year. These programmes include workshops such

as Terracotta, Folk Dance, Art & Craft, Spoken English, Computer and Drama, wherein children from the neighbouring villages too participate along with the students of the university. To sensitize the students towards social issues and to attain holistic development, opportunities are provided for student participation and leadership experiences in a variety of officially recognized clubs and organizations. Currently it mentors and funds around 20+ student clubs which conducts more than 100 events throughout the academic year. The staff is committed to delivering quality advising, resource materials, leadership development opportunities, and administrative support services to impact students' growth and development and enhance the success of each student organization.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### **3.6.2 - Number of awards received by the Institution, its teachers and students from Government /Government recognised bodies in recognition of the extension activities carried out during the year**

#### **3.6.2.1 - Total number of awards and recognition received for extension activities from Government / Government recognised bodies during the year**

2

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### **3.6.3 - Number of extension and outreach programs conducted by the institution including those through NSS/NCC/Red cross/YRC during the year(including Government initiated programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. and those organised in collaboration with industry, community and NGOs)**

25

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### **3.6.4 - Total number of students participating in extension activities listed at 3.6.3 above during the year**

845

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.7 - Collaboration

**3.7.1 - Number of collaborative activities with other institutions/ research establishment/industry for research and academic development of faculty and students during the year**

**3.7.1.1 - Total number of Collaborative activities with other institutions/ research establishment/industry for research and academic development of faculty and students during the year**

995

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**3.7.2 - Number of functional MoUs with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the year**

37

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

## INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 - Physical Facilities

4.1.1 - The institution has adequate facilities for teaching - learning. viz., classrooms, laboratories, computing equipment, etc.

The university's departments and schools are all fully furnished with sufficient number of classrooms and labs. There are 88 classrooms with ICT capabilities & air-conditioning facilities, 12

lecture halls with 120 to 240 seats, 89 cutting-edge academic laboratories, and 32 research labs, including ones for welding research, bio fuel & bio energy studies, product design and simulation, SEM/EDX, electrochemical analysis, and XRD laboratory, among other things. All lecture halls and classrooms are ICT equipped with sound-absorbing walls and ceilings, computers, multimedia projectors, touch pads, VGA distributors, audio-video aids, and internet access in addition to the traditional teaching methods. On campus, there is air conditioning in every lecture hall and classroom. The university has state of the art auditorium of 480 capacity that is used not only by the university, but also by several governmental departments for guest lectures, conferences, workshops, etc. Wi-Fi is available across the entire campus, enabling teachers and students to access the Internet for a dynamic teaching-learning process. The university includes three electronically connected, completely automated, and air-conditioned libraries, each of which has more than 2.07 lakh books, e-books, magazines, references, national and international journals, and CD-ROMs that cover all facets of academic study and research material.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

4.1.2 - The institution has adequate facilities for cultural activities, yoga, games (indoor, outdoor) and sports. (gymnasium, yoga centre, auditorium, etc.)

PDEU's sporting facilities cover an area of 83,902 square meters (20.7 acres) which includes cricket, basketball, football, volleyball, basketball, lawn tennis, badminton, and fitness centers,. The university has created a design for creating a sports complex of 187768 square meters to incorporate contemporary sports facilities like swimming, shooting, and squash along with standard sports facilities. This plan will be built in addition to the current sports and cultural facilities. The Office of Student Activities, Involvement & Leadership (OSAIL) at PDEU enhances students' academic experiences by offering services and materials that encourage students to contribute to the development of campus culture through social, sporting, cultural, intellectual, spiritual, athletic, recreational and artistic opportunities. Students receive coaching from coaches and fitness trainers for a variety of sports activities and fitness. The institution boasts a cutting-edge, 480-person capacity auditorium that is used by the University for Events including conferences and workshops. Every year, the Petro Cup sports festival is organized by the PDEU, and athletes from all around the nation compete in it. The university has built a third

gym with top-notch equipment for cardiovascular activities, allowing students to better their lifestyle, health, and general welfare. The School of liberal studies plays a very active role in promoting cultural and social activities in the university and in the nearby communities. Open-air theatres, and performing arts rooms are exclusively available for practicing and performing cultural events. University has 14 social and cultural clubs and 02 sports clubs managed by the OSAIL.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

#### 4.1.3 - Availability of general campus facilities and overall ambience

Gujarat's capital city, Gandhinagar, is home to the 98.2 acre campus of Pandit Deendayal Energy University. The campus is spread out over 98 acres of land with landscaping, well-equipped 89 state-of-the-art academic and 32 research laboratories, fully air-conditioned 88 classrooms, 12 lecture theatres, one auditorium with seating for 120 to 240 accommodations, a cafeteria, a sports field (83,902 square meters), a 24 hour medical facility, a State Bank of India bank facility, stationary and reprographic faculty, a CCTV surveillance system with 458 cameras, and boys and girls hostels with 03 libraries are which are virtually connected. LAN connectivity is provided via 25+ km of fiber optic cables with ring topology, and there are 150 Wi-Fi access points across the campus. In order to promote efficient learning, the classrooms are furnished with audio-visual and multi-media tools. The university has made sure the students follow a diet that is healthful and nutritious, as recommended by a dietician. Refreshments are available all day long at the food court. Students can unwind in the cafeteria's appealing layout and eco-friendly setting while thinking through their academic concerns. To provide students with hygienic meals in a variety of flavours, there are food franchise kiosks on campus. For the use of the pupils, a performing arts room is available.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

#### 4.1.4 - Total expenditure excluding salary for infrastructure augmentation during the year (INR in Lakhs)

9603.81

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

## 4.2 - Library as a Learning Resource

4.2.1 - Library is automated using Integrated Library Management System (ILMS) and has digitisation facility

The university's library has a sizable collection of both printed and electronic resources, such as books, journals, databases, CDs/DVDs, e-journals, reports, case studies, conference proceedings, instruction manuals, etc. Since 2006, PDEU has used the TCSion and KOHA Version: 19.11.02.000 version of Library Management Software to fully operate three virtually networked libraries (LMS). The university library has a sufficient number of workstations for OPAC, e-resources, web surfing, and other academic tasks. Additionally, it is possible to download and print the content from these resources. Libraries can join DELNET as well. The institution has access to a wide range of rare books and manuscripts. In the university's archives, there are about 6,000 rare volumes, 47 unusual dictionaries, 66 rare grammar books, 8076 manuscripts, and 90 rare diaries. The first woman to graduate from the institution, Cornelia Sorabji, is prominently featured in a number of unique portraits and paintings in the university's collection. These are kept in the university library's collection and correctly catalogued with accession numbers. The attachment includes a thorough description of rare books and manuscripts. The library makes every effort to add valuable literature, including rare volumes, reports, theses, and other knowledge resources, to its collection.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**4.2.2 - Institution has subscription for e-Library resources Library has regular subscription for the following: e – journals e-books e-ShodhSindhu Shodhganga Databases**

A. Any 4 or all of the above

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**4.2.3 - Annual expenditure for purchase of books/ e-books and subscription to journals/e-journals during the year (INR in Lakhs)****254.17918**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**4.2.4 - Number of usage of library by teachers and students per day (foot falls and login data for online access)****302727**

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**4.3 - IT Infrastructure****4.3.1 - Number of classrooms and seminar halls with ICT - enabled facilities such as LCD, smart board, Wi-Fi/LAN, audio video recording facilities during the year****88**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**4.3.2 - Institution has an IT policy, makes appropriate budgetary provision and updates its IT facilities including Wi-Fi facility**

For the academic and research community, Pandit Deendayal Energy University's PDEU IT Infrastructure offers top-notch computing, network, and educational technology support. The IT policy was implemented by PDEU using document number IT policy, Version 1.0, dated September 1, 2013. The university's IT policy covers the fundamentals for its effective daily functioning. The present IT policy strikes a balance between user convenience and security requirements. Every year, an annual capital and recurring IT budget is proposed and approved for upkeep of the current IT infrastructure as well as for the purchase of new or updated IT infrastructure for all PDEU stockholders. All of the Institution and residence

buildings are connected by a cutting-edge campus network with a 25+ km, 2.5 Gbps fibre optic backbone. The network is managed by 200+ Cisco core switches (L2,L3), 150+ access points, and 10,000+ nodes for 9000+ users throughout the PDEU campus, and it provides 24x7 internet access through multiple service providers via Internet leased lines. Through a Learning Management System with a wide range of learner-centric technologies, IT infrastructure supports the teaching and learning process. A knowledge repository that contains instructional materials from sites like Coursera, edX, IBM Skill build, etc. is also kept and is accessible via Intranet (LAN).

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

#### 4.3.3 - Student - Computer ratio during the year

Number of students	Number of Computers available to students for academic purposes
7335	1598

#### 4.3.4 - Available bandwidth of internet connection in the Institution (Leased line)

- ?1 GBPS

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

#### 4.3.5 - Institution has the following Facilities for e-content development Media centre Audio visual centre Lecture Capturing System(LCS) Mixing equipment's and softwares for editing

A. All of the above

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Upload the data template	<a href="#">View File</a>

#### 4.4 - Maintenance of Campus Infrastructure

##### 4.4.1 - Total expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component during the year

3903.81

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

The Campus Management Department (CMD) looks for the university's facilities, including its buildings, classrooms, laboratories, gardens, auditorium, canteen, dormitories, sports facilities, gymnasiums, landscaping, health centre, etc. Under the direction of the CMD, 130 housekeeping staff members clean the infrastructure facilities, such as the classrooms, labs, buildings, hostels, cafeterias, etc., every day. The campus has 24 hour access to contracted housekeeping services. For the upkeep of various types of equipment, the University has established policies and procedures. According to the technique or procedures set forth from time to time by the University, department-specific equipment is maintained or repaired by the responsible laboratory in charge. All significant laboratory equipment is covered under an Annual Maintenance Contract (AMC) for routine preventive and corrective maintenance. The gardens, tree plantations, landscaping etc. are maintained by the garden staff a under the supervision of the CMD.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

## STUDENT SUPPORT AND PROGRESSION

### 5.1 - Student Support

**5.1.1 - Total number of students benefited by scholarships and free ships provided by the institution, Government and non-government agencies (NGOs) during the year (other than the students receiving scholarships under the government schemes for reserved categories)**

710

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**5.1.2 - Total number of students benefited by career counselling and guidance for competitive examinations offered by the Institution during the year****19535**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**5.1.3 - Following Capacity development and skills enhancement initiatives are taken by the institution Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) Awareness of trends in technology**

**A. All of the above**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**5.1.4 - The Institution adopts the following for redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organisation wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees**

**• All of the above**

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**5.2 - Student Progression**

**5.2.1 - Number of students qualifying in state/ national/ international level examinations during the year (eg:NET/SLET/GATE/GMAT/CAT/ GRE/TOEFL/Civil Services/State government examinations)**

**5.2.1.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government**

**examinations) during the year****135**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**5.2.2 - Total number of placement of outgoing students during the year****676**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**5.2.3 - Number of recently graduated students who have progressed to higher education (previous graduating batch) during the year****455**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**5.3 - Student Participation and Activities****5.3.1 - Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter -university/state/national/international events (award for a team event should be counted as one) during the year****17**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**5.3.2 - Presence of Student Council and its activities for institutional development and student welfare**

**Pandit Deendayal Energy University maintains a friendly and holistic environment with modern technologies to enhance the spirit and**

energy level of all learners, development of life skills, leadership and inspire students to optimize their learning efforts. Extra-curricular activities take place through the Office of Student Activities, Involvement and Leadership (OSAIL) which works with an objective of providing students an opportunity to develop their interests and leadership qualities. The activities at the OSAIL are majorly driven by Student Clubs and are categorized as:-

- Social and Cultural
- Science and Technical and
- Sports

A student committee is formed where President, Vice Presidents, Member Secretary and Treasurer Position are nominated for each of the said category and faculty in-charge is assigned. Under the mentorship of OSAIL, the students ideate and execute events, run their organizations as an autonomous body and with an added advantage they learn team work, financial planning management, time management, marketing promotions, communication and negotiation skills etc.

Students work through clubs to conduct various Intra-University, Inter University and National level events in fields of art, culture, language, media, sports, science technology etc. The activities at OSAIL are largely driven by Student Clubs, committees with each focusing on different aspects of art, culture, or science, theatre, film archive, STEM Learning, robotics, and photography etc.. Major Festivals under OSAIL are FLARE Annual Cultural festival, Tesseract - Annual Technical festival and Petrocup - Annual Sports are popular among students of other reputed institutes and received good participation during inter college events.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### **5.3.3 - Number of sports and cultural events / competitions organised by the institution during the year**

131

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

#### 5.4 - Alumni Engagement

5.4.1 - The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and other support services during the year

During the year 2021-22, the Alumni Association came into being and a strategic plan for 5 years is in the making for involvement and advancement of PDEU Alumni community keeping in mind the vision and mission of the University. During this period, the alumni strategies were mainly focused on further strengthening the sense of community between current and former students, faculty and staff of the University. Few active alumni contributed in mentoring current students for career post-PDEU, guiding students for Civil Services and other competitive exams, course-curriculum improvement of various departments, etc. We organised two alumni meets in Houston, USA and one in Calgary, Canada to establish respective chapters in these two countries. We have established Alumni groups in all locations within India and abroad to initiate chapter formation and further activities to strengthen the bonding within the alumni community and with their Alma Mater. Alumni are coming forward to create an Endowment Fund for PDEU Alumni Association and involve themselves by contributing in whatever way they can in the betterment of the University.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

5.4.2 - Alumni contribution during the year (INR in Lakhs)

E. <1Lakhs

File Description	Documents
Upload relevant supporting document	No File Uploaded

### GOVERNANCE, LEADERSHIP AND MANAGEMENT

#### 6.1 - Institutional Vision and Leadership

6.1.1 - The institution has a clearly stated vision and mission which are reflected in its academic and administrative governance

**Vision:**

To emerge as a world-class Institution of Excellence in Energy Education, Research and Innovation which will prepare and sensitize the youth and ultimately the society for radical yet sustainable societal transformation.

**Mission:**

- Undertake a unique obligation for Education in Energy, Engineering, Management and Liberal Arts with special responsibilities in domain-specific aspects of Energy & Infrastructure.
- Seek to nurture students of extraordinary motivation and ability, and prepare them for life-long learning and leadership in an increasingly knowledge-driven world.
- Envisage establishing institutes of excellence in education, competitive edge in research and real-time relevance with futuristic thrusts in the offering of programmes and undertaking activities and projects.

**Quantum of PDEU’s Mission accomplished:**

- Energy education is imparted in every stream, including Sciences, Engineering, Management and Liberal arts to achieve Graduate attributes.
- In our Mission to establish institutes of excellence, we have launched 3 centres of excellence (DCS facility, iACE, Advanced Manufacturing), 140 Crores invested in the assessment period.
- PDEU actively participates in FICCI, CII, Assocham, AIU, SAARC, Indo-African and Indo- European forums for globalization.
- PDEU is co-opted by MNRE, NITI Ayog, GoG, and Embassies of the USA, and the UK in Energy advocacy and policy decision.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

6.1.2 - The effective leadership is reflected in various institutional practices such as decentralization and participative management

**Management**

- The Board of Governors headed by Dr Mukesh Ambani provides

effective leadership to implement the Vision and Mission of the University.

- The BoG along with the Government of Gujarat constitutes a Standing Committee to guide, oversee and support the University in policy implementation.
- The Standing committee is headed by Dr Hasmukh Adhia IAS retd. (Former Principal secy. of GoG and former Union Finance & Revenue Secy, of GoI until 2018) the committee, since Feb 2022.

#### Administration:

- The Director General, Professor S. Sundar Manoharan PhD (IISc) provides academic and administrative leadership to the university in its pursuit of excellence. The DG PDEU works closely with Directors and Deans of different schools to ensure effective outcomes.
- Professor Tarun Shah, the Registrar ensures the rules and regulations strictly adhere to and the code of conduct is implemented in all its operational procedures.

In addition to management and administration the statutory bodies (Academic Council and the Finance Committee), Office of the Director of Academic Affairs, Office of the Dean R&D, and Office of the Dean of Student Affairs works closely to achieve academic excellence.

The Uniqueness of the university is also reflected in participative leadership (Women Leadership and Student Leadership)

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

## 6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic plan is effectively deployed

### Glimpse of Initiatives

University has launched several initiatives to bring visibility in academics, research, and Faculty empowerment through Accreditation, Ranking, and capacity building.

### Accreditation

The University became the first private university in Gujarat to get a National Assessment & Accreditation Council (NAAC) grade A++ with a CGPA of 3.52/4. (Improved its "A" Grade in 2016 to "A++" in 2022).

#### Centers of Excellence (CoE):

- University established CoE in Automobile Engineering, Geothermal Energy, Solar Energy, Biofuel and Bioenergy. International Automobile Center of Excellence for hands-on experience for students in the auto industry, 17 certificates PG programs will be launched by our trained faculty. (With Maruti Suzuki and GoG)
- Innovation and Incubation Centre (IIC) to encourage startup and entrepreneurship culture.

#### Capacity Building

As a part of the capacity-building initiative, the university is improving the existing infrastructure for academic, research and other related activities.

#### Other Major Outcomes-Strategic Plan includes

- IPR cell, NBA accreditation for several programs, development of sports complex and promotion of the internationalization of education.

#### Strategic Plan: 2021- 2025

#### Transformation Education:

- Curriculum Industry 4.0, & MOOC Courses for learning outcomes

#### Translational Research (Translational Research Centre, TREC-PDEU):

Its an exclusive facility to realize all the verticals of Industry 4.0. We wish to pursue:

Additive Manufacturing - ATMANIRBHAR BHARAT initiative.

#### Cyber-Physical Systems: Industrial IoT

- Big-Data-analytics, Data Mining, Cyber security.
- Solar PV Product Line: 50 MW skill India Initiative for Energy transition.
- Next Generation Laboratory: Machine learning, Virtual reality,

mixed reality.

- Energy Storage: For grid support employing redoc battery.

Urja Satellite project.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

6.2.2 - The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, etc.

1. Administrative and Academic bodies as per UGC norms: Regulations in its Part-A &B, besides also in the University Act.

The university has the following activities as mentioned in its acts and regulations

The University has the following authorities as mentioned in its Act and Regulations: The university Board of Governors (BoG) encompasses a unique preposition of stakeholders from the Academia, Government and Industry.

Similarly, the standing committee, academic council and finance committee ensure the smooth functioning of the university in the line with vision and mission statement.

1. Academic Bodies:

- Faculty of Studies
- Board of Studies

1. Officers of the University:
2. The Regulations also provide for the powers and functions of the faculty/Course Instructor.
3. The well-defined policies are in place for taking care of student-related activities which include academic and related activities
4. For administrative management, the following components are covered in the University Regulations:

- **Infrastructure Development:** Building & works Committee.
- **Procurement Management:** Purchase committee
- **Contract Management:** Housekeeping, security.
- **Finance Management:** Finance committee, auditors-internal and external.
- **HR Management:** CHRO, HR Team, School Admin team.

General Service Rules for the employees carry the contents on Performance Appraisal, Increment, Professional Development & Career Allowance, Key Performance areas, Code of Conduct, and a few others.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 6.2.3 - Institution Implements e-governance in its areas of operations

#### 6.2.3.1 - e-governance is implemented covering following areas of operation

1. Administration
2. Finance and Accounts
3. Student Admission and Support
4. Examination

A. All of the above

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has a performance appraisal system, promotional avenues and effective welfare measures for teaching and non-teaching staff

#### 1. Appraisal

- The University has a transparent and meritocratic online appraisal system for faculty members and staff.
- The faculty are broadly assessed on their Teaching, Research, Administrative Activities, and Extended Activities and staff is broadly on their deliverables and additional responsibilities assigned.

Link of Faculty & Staff Appraisal System:

<http://apas.pdpu.ac.in/apas>

## 2. Promotional Avenues:

- Faculty members can apply for Cadre upgradation and for Leadership roles and the system gives a fair opportunity, the University accepts their applications against various posts and positions in reference to the advertisement published.
- Non-Teaching employees participate in all academic and non-academic activities along with faculty members.
- Technical staff in laboratories equally participate in learning outcomes as per the OBE process.
- The technical staff gives talks to Faculty and other peers on learning outcomes and in new learning methodologies devised by them.
- 3. Welfare measures:
- Cumulative Professional Development Allowance worth INR 1 Lac per year.
- Additionally, 7th Pay Structure, Gratuity and Leave Encashment, Maternity Leave, Training Expenditure, Leave for professional endeavours, Medical Insurance, Accidental Insurance, Corona Kawacch, Children Education Allowance, On-campus accessibility of Doctors, Transportation Facilities and canteen facility are provided.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 6.3.2 - Total number of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

109

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 6.3.3 - Number of professional development / administrative training Programmes organized by the institution for teaching and non-teaching staff during the year

3

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

#### 6.3.4 - Total number of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the year(Professional Development Programmes, Orientation / Induction Programmes Refresher Course, Short Term Course)

45

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 6.4 - Financial Management and Resource Mobilization

#### 6.4.1 - Institutional strategies for mobilisation of funds and the optimal utilisation of resources

##### 1. Resource Mobilization:

PDEU being a self-financed university follows financial prudence based on transparency, ethics, and integrity and has adopted best practices from both public universities and corporate governance under the framework of the PDP Act, 2007. The finance committee, a statutory body of the University, oversees the financial planning as well as mobilization and utilization of the funds of the University.

- Corpus Funds (Rs.193 Crores)

•Scholarship Funds (Rs.25 Crores) •Revenue from Operations (Rs.127 Crores) •Research and Other Funding (Rs. 19.39 Crores)

##### 1. Optimum Utilization:

The university has a well-defined mechanism to monitor the effective and efficient utilization of available financial resources for upscaling the academic processes and also for infrastructure development.

Following are the key processes:

- Preparing annual budgets
- Expenditure under different heads
- Performing periodic internal audits
- Various committees to ensure optimum utilization of funds

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

#### 6.4.2 - Funds / Grants received from government bodies during the year for development and maintenance of infrastructure (not covered under Criteria III and V) (INR in Lakhs)

0

File Description	Documents
Upload the data template	No File Uploaded
Upload relevant supporting document	No File Uploaded

#### 6.4.3 - Funds / Grants received from non-government bodies, individuals, philanthropists during the year for development and maintenance of infrastructure (not covered under Criteria III and V)(INR in Lakhs)

0

File Description	Documents
Upload the data template	No File Uploaded
Upload relevant supporting document	No File Uploaded

#### 6.4.4 - Institution conducts internal and external financial audits regularly

##### 1. Statutory Auditor:

- The Finance Committee has appointed M/s /s P. R. Shah & Associates as statutory auditor of the university.

- The audit takes into cognizance the various verticals of operation and the legislative framework the university operates. The audit program is based on the auditor's judgment and assessment of risk and encompasses checks to verify that internal controls are commensurate with the size of the institution, the distribution of resources across verticals, the nature of its activities, and in addition to its own examination, the external auditor takes into

account references made by the Finance Committee.

## 2. Internal Auditor:

- The Finance Committee has appointed Manubhai and Shah LLP as internal auditors of the University.
- The University has established the practice of Pre-audit by an independent CA firm for all transactions above Rs. 10 Lakhs.
- The University also has a full-fledged Accounts department headed by the Finance Officer. The financial statements are prepared in accordance with Generally Accepted Accounting Principles.
- The financials of the University and audit reports are placed on the University Website.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

## 6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes by constantly reviewing the teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals

Internal Quality Assurance Cell (IQAC) channelizes and regulates the efforts and monitoring of Quality Assurance (QA) and Quality Enhancement (QE) activities in curriculum design, teaching-learning process and research.

### •Improving Teaching-Learning Process

- Outcome-based Education (OBE) and Course Outcomes (COs) are prepared following blooms taxonomy for all programs at the university.
- The Choice Based Credit System (CBCS) intensified with the introduction of additional >100 core elective courses.
- It also takes care of course reviews from the student to support the corrections and also supporting in providing seed funding for a research project.

- Structures & methodologies of operations
  - Through systematic methods and approaches, IQAC ensures the ecosystem for academic excellence.
- Learning outcomes at periodic intervals
  - The IQAC monitors the effective implementation of all the policies set by UGC and suggests improvement if requires.

IQAC involves all the stakeholders in the review process to make the entire process of teaching-learning resources and teaching-learning process, a wholesome experience at PDEU.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**6.5.2 - Institution has adopted the following for Quality assurance Academic Administrative Audit (AAA) and follow up action taken Confernces, Seminars, Workshops on quality conducted Collaborative quality initiatives with other institution(s) Orientation programme on quality issues for teachers and studens Participation in NIRF Any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)**

**B. Any 4 of the above**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**6.5.3 - Incremental improvements made for the preceding during the year with regard to quality (in case of first cycle) Post accreditation quality initiatives(second and subsequent cycles)**

**Incremental improvements made for the preceding five years with regard to quality (in the case of the first cycle)**

- Choice based credit system was implemented.
- That was the phase when IPR activity sensitization was happening.

- dot net courses, IBM-based Big Data analytics were introduced.
- The notion of additive manufacturing and polymer 3-D printing was introduced as special topics in the curriculum.
- Online courses and the notion of crediting MOOC courses/NPTEL courses are set in the new credit banking system.

**Post accreditation ACADEMIC quality initiatives (second and subsequent cycles)**

- Outcome-based education, from structuring to rigorous implementation.
- Emphasis on Industry 4.0 verticals.
- IPR Apex committee was instituted to enhance the activity (250 patents filed).
- High-end titanium/Metal printing machine of industrial grade installed first amongst the universities as an ATMANIRBHAR BHARAT initiative.
- To enrich technical/non-teaching staff: Co-PO mapping review symposium introduced (16 staff have presented so far).

**Post-Accreditation ADMINISTRATIVE initiatives:**

- Additional Scholarships for Students
- Internationalization of Education
- Installing a new Translational Research Centre facility (TREC-PDEU)

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**INSTITUTIONAL VALUES AND BEST PRACTICES**

**7.1 - Institutional Values and Social Responsibilities**

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

Measures initiated by the Institution for the promotion of gender equity during the year

- Women leadership in academics and research administration

enhanced.

- An increase in the number of female faculty.
- Increase in female staff ratio.
- Improved female student intake.
- Special quota for female students (10%) and scholarships based on All India JEE score.
- Foreign Female students pursuing UG and PG Program admitted through STUDY IN INDIA and direct admissions.
- 50% admission seats reserved for female students in School of Liberal Studies.
- Robust HR policy to draw women as faculty members.
- Maternity leave for 26 weeks along with INR 75,000 for medical expenses.
- Apart from the women warden in girls' hostel, a female faculty is also nominated as a mentor.
- Women in Technology: a special funding grant received from bp in 2021 up to 430,000 US Dollars towards, Ph.D. and Skill development and Faculty research.

#### Women's Cell

It works towards the dignity of women at work, a safe working and learning environment, free from gender discrimination and sexual harassment.

- To create awareness amongst students about the problems faced by women of all strata due to gender issues.
- To create an environment of gender justice where men and women work together with a sense of personal security and dignity.
- To foster decision-making ability in girl students for making informed choices in areas like education, employment and health.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Annual gender sensitization action plan(s)	Nil
Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common rooms d. Daycare Centre e. Any other relevant information	Nil

**7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment**

**A. Any 4 or All of the above**

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management**

- **Solid waste management:** All the solid waste generated on the campus is being segregated into plastic and paper waste.
- **Liquid waste management and recycling:** All the wastewater collected at the centralized treatment facility. Clean water is channelized into the garden area in and around campus. There are two Sewerage Treatment Plants (STPs) each with a capacity of treating 300 KLD. These STPs are designed to treat the Sewage and wastewater generated from hostels and other academic buildings.

Also there are twelve numbers of percolation wells with a total capacity of 20 KL/hr. These are shallow excavated trench filled with gravel or crushed stone that is designed to infiltrate stormwater through permeable soils into the groundwater aquifer.

- **E-waste management:** E-waste, such as monitors, keyboards, mouse, hard disk, PC, circuit board, equipment, etc. is disposed to local vendors from time to time.

These practices help the students understand the standard procedures in the management of e-waste.

- **Hazardous chemicals waste management:** Due care is taken to dispose of crude oil (generated in very less quantities) being used as a hazardous substance. The laboratories are set up keeping safety in mind. Researchers follow standard safety practices by wearing proper PPE during handling hazardous substances.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus**

A. Any 4 or all of the above

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**7.1.5 - Green campus initiatives include**

**7.1.5.1 - The institutional initiatives for greening the campus are as follows:**

1. Restricted entry of automobiles
2. Use of bicycles/ Battery-powered vehicles
3. Pedestrian-friendly pathways
4. Ban on use of plastic
5. Landscaping

A. Any 4 or All of the above

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

<b>7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution</b>	
<b>7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:</b> <ol style="list-style-type: none"> <li>1. Green audit</li> <li>2. Energy audit</li> <li>3. Environment audit</li> <li>4. Clean and green campus recognitions/awards</li> <li>5. Beyond the campus environmental promotional activities</li> </ol>	<b>A. Any 4 or all of the above</b>
File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
<b>7.1.7 - The Institution has a disabled-friendly and barrier-free environment Ramps/lifts for easy access to classrooms and centres. Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.</b>	<b>A. Any 4 or all of the above</b>
File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
<b>7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words)</b>	
<ul style="list-style-type: none"> <li>• 35 Student Clubs covering curricular &amp; extracurricular activities.</li> <li>• Students from 34 countries and 30 states &amp; union territories of India live together in harmony.</li> <li>• 3 major university festivals: sports, cultural &amp; technical</li> </ul>	

bring students together to celebrate diversity.

- Every year, the liberal arts and engineering students undergo 1-month residential rural internship where they learn to relate to humanity. This create a great atmosphere for learning tolerance, to appreciate different cultures and linguistic diversity.
- Faculty & Staff represent 18 states.
- Students & Faculty visits old-age homes and orphanages. This helps them to become sensitive towards societal demands and needs.
- The dining facilities are meant to be common for both genders to cultivate tolerance and sensitivity at public place.
- Campus Connect activity induces children from nearby villages who are trained for around 6 hours/day at campus. Students, staff and faculty relates themselves professionally and culturally with them.
- In Hackathons, a special emphasis is given to have at least one girl, one liberal art and one management student in each team to bring diversity and enhance critical thinking.
- To enhance diversity, School of Liberal Studies emphasis on ensuring 50% female students enrolment.
- Sports tournaments and Yoga are organized. SPIC-MACAY events are organized annually.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

- Students are encouraged to undergo NCC training.
- Republic & Independence Day and Teacher's day are celebrated with enthusiasm.
- Adoption of 5 villages to emancipate the rural community using engineering solutions under 'Unnat-Bharat Abhiyan'.
- University sensitizes 'Pradhan Mantri Sahaj Bijli Har Ghar Yojana - Saubhagya' - aims for energy access to all.
- University sensitizes 'PM Har Ghar Jal Yojana'. A Center for Wastewater Treatment & Management is established to develop low-cost drinking water.
- As a part of institutional ethics, students & staff are sensitized about plagiarism and professional ethics.
- General Service rule book also endorses ethical obligations for its employees - "All employees are expected to behave according to the ideals of national integration showing love,

concern, respect to all without any discrimination whatsoever of caste, creed or community. Any act or speech against this rule shall be considered as a serious breach of discipline and shall invite strict disciplinary action. Every employee shall strive in general to instill in the students under his/her care a high sense of values. Social conscientiousness, pride in their Alma Mater and loyalty to the Country. It is the sacred duty of all the employees to work for the intellectual, moral, social and physical development of all students."

**7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard. The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on Code of Conduct are organized**

All of the above

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

Efforts of the university in celebrating / organizing national and International commemorative days, events and festivals during the year have ensured the required sensitization for all the stakeholders.

This University has a long-standing tradition of celebrating prominent events on the campus.

Annual Report of Office of Student Activities, Involvement & Leadership (OSAIL) <https://www.pdpu.ac.in/osailAnnualReport.html> can be accessed here.

Day / events organized:

- Independence Day Celebration
- Republic Day Celebration
- Yoga Day

- **Run for Tiranga**

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

## 7.2 - Best Practices

7.2.1 - Describe one best practice successfully implemented by the Institution as per NAAC format provided in the Manual

1. **Title of the Best Practice - Enlightened to Enlighten: To transcend to quality leadership and to impart to the next generation**

2. **Objectives of the Practice:**

- To decentralize for effective leadership and impart accountability in every mission.
- To make assume responsibility to envision beyond the strategic plan.

3. **The Context:** Significant contributions made to the National Missions - Digital India, Make in India, Skilling India, Unnat Bharat Abhiyan,,Atmanirbar Bharat, etc.

4. **The Practice:** Quality education and imparting leadership for Energy Transition, Generation & Storage, Renewable Energy, Water Sanitation, Waste Management, AI & Robotics, Digital Manufacturing, Biomedical Challenges, Innovation & Social Engineering.

4.1 **Administrative Decentralization:** Autonomy to School Directors & Deans for Academic, administrative and financial roles.

4.2 **Bottom-up approach in grooming leadership:**

- Leadership training from fresher to final year students and young to the senior faculty.
- Encouragement to young faculty through different schemes research facilities.

5. **Evidence of Success:** The Government has sought involvement of the University in developing a draft proposal for the PM's 5 Trillion Dollar economy roadmap, particularly for ENERGY transition. Leading industries like SHELL Hazira, Suzlon, bp, Maruti Suzuki, NTPC, ONGC and MIDHANI have extended to collaborate.

6. Problems encountered and resources required: The NEP 2020 and Skill India Initiatives pursued by the Government and the preparedness on the part of academia to implement is a major challenge.

### 7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

#### Transformational Learning: Innovative Pedagogy

1. Community-based activities: credit-based 240 hours benefitting Community and 1500 students every year.
2. Project-based learning: to increase students' reflection on outcome-based learning. Outcome: More than 90 hours per semester, for 900 students every year.
3. Research-based learning with mentoring from faculty, develops learning skills, time bound project completion.
4. Corporate internship: to solve business, political, and economic challenges in India and abroad.
5. Startup and Entrepreneurship-based learning: Innovation and Incubation Centre of the University conducts Hackathon from time to time to encourage students for innovation and also helps in incubating their ideas into reality.
6. Globalization:
  - Outbound Initiatives:
    - International Exposure: 3 IEPs, 152 Students & 11 PDEU Officials
    - Student Abroad/Exchange Programs: 2 Programs, 6 Students
    - AIESEC: 15 Students to 2 Countries
  - Inbound Initiatives:
    - Study In India Program: 1 Program, 17 Students & 1 Faculty
    - International Admissions: 51 Students from 19 different countries

Mixed learning: E-learning for 10-15% credits, through the portals including Swayam/NPTEL/MOOC platform, EDEX and COURSERA.

7.3.2 - Plan of action for the next academic year

1. Academic Calendar of the academic programs running at the University.

2. To prepare for data submission to NIRF (National Institutional Ranking Framework) and GSIRF (Gujarat State Institutional Rating

Framework) 2023.

3. To request the President of the University to invite an leading stalwart of Industry as Chief Guest for the next Convocation to be held in November 2022.

4. To undertake building up the infrastructure of 50 MW Solar PV Panel Product Line, and thereby the pilot run of the plant by March 2023.